
Title: Correction to number of subcarriers per subchannel for 2048-FFT (PUSC)

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Source(s):
- Prince Arora
  NEC Technologies (UK) Ltd.
  Voice: +44 (0) 118 9654566
  Fax: +44 (0) 118 9257191
 mailto:prince.arora@nectech.co.uk
- Nader Zein
  NEC
  Voice: +44 (0) 2087523863
  Fax: +44 (0) 2087523861
  mailto:nader.zein@ttd.neceur.com

Abstract: Correction to number of subcarriers per subchannel for 2048-FFT (PUSC)

Purpose: The contribution is to correct the number of subcarriers per subchannel for 2048-FFT uplink subcarrier allocations in case of PUSC.

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Correction to number of subcarriers per subchannel for FFT-2048 (PUSC)

Prince Arora

Introduction
This contribution is to correct the number of subcarriers per subchannel for FFT 2048 in case of PUSC. The proposed changes reflects the correct number of subcarriers per subchannel in the OFDMA uplink subcarrier allocation table and specify the permutation used.

Detailed Text Changes
Modify text in section 8.4.6.2

The uplink supports 70 subchannels for PUSC permutation, and 96 subchannels for optional PUSC permutation. Each PUSC allocation transmission uses 48 data carriers as the minimal block of processing. Each new transmission for the uplink commences with the parameters as given in Table 313 for PUSC permutation, and with the parameters as given in Table 315 for optional PUSC permutation.

Modify Table 313.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of dc subcarriers</td>
<td>1</td>
<td>Index 1024</td>
</tr>
<tr>
<td>Nused</td>
<td>1681</td>
<td>Number of all subcarriers used within a symbol</td>
</tr>
<tr>
<td>Guard subcarriers: Left, Right</td>
<td>184, 183</td>
<td></td>
</tr>
<tr>
<td>TilePermutation</td>
<td>6, 48, 58, 57, 50, 1, 13, 26, 46, 44, 30, 3, 27, 53, 22, 18, 61, 7, 55, 36, 45, 37, 52, 15, 40, 2, 20, 4, 34, 31, 10, 5, 41, 9, 69, 63, 21, 11, 12, 19, 68, 56, 43, 23, 25, 39, 66, 42, 16, 47, 51, 8, 62, 14, 33, 24, 32, 17, 54, 29, 67, 49, 65, 35, 38, 59, 64, 28, 60, 0</td>
<td>Used to allocate tiles to subchannels</td>
</tr>
<tr>
<td>Nsubchannels</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>Nsubcarriers, Ntiles</td>
<td>48 420</td>
<td></td>
</tr>
<tr>
<td>Ntiles, Number of subcarriers per tile</td>
<td>420 4</td>
<td>Number of all subcarriers used within tile</td>
</tr>
<tr>
<td>Tiles per subchannel</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>